

Substitute for Form 1449 TRADEMARK OFFICE				Complete if Known	
				Application Number	10/646,070
				Filing Date	August 22, 2003
				First Named Inventor	Michael W. GRAHAM
				Art Unit	1636-1678
				Examiner Name	D. Sullivan Whiteman
Sheet	1	of	1	Attorney Docket Number	546322000303

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
BW	1.	WO-99/09045	02-25-1999	Somagenics, Inc.	T ⁶

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NON PATENT LITERATURE DOCUMENTS					
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	2.	<u>European Search Report mailed June 3, 2005, for European patent application no. 04015041, filed March 19, 1999, 4 pages</u>			
BW	3.	BASS, Brenda L. (May 24, 2001) "RNA Interference: The Short Answer," Nature, 411:428-429			
BW	4.	HARBORTH, Jens et al. (2001) "Identification of Essential Genes in Cultured Mammalian Cells Using Small Interfering RNAs," Journal of Cell Science, 114:4557-4565			
BW	5.	MANCHE, Lisa et al. (Nov. 1992) "Interactions Between Double-Stranded RNA Regulators and the Protein Kinase DAI," Molecular and Cellular Biology, 12(11):5238-5248			
BW	6.	PADDISON, Patrick J. et al. (July 2002) "RNA Interference: The New Somatic Cell Genetics?" Cancer Cell, 2:17-23			

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ALTERNATIVE TO PTO/SB/08a/b (06-03)

Substitute for form 1449/PTO				Complete If Known	
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				Filing Date	August 22, 2003
				First Named Inventor	Michael W. GRAHAM
				Art Unit	4630 162
				Examiner Name	D. SULLIVAN W. H. T. C. H.
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BW	AA	US 5,578,716	11-26-1996	Szyf et al.	
BW	AB	US 5,998,383	12-07-1999	Wright et al.	

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Examiner Initials*	Cite No.*	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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BW	BA	WO 95/15378	08-08-1995		

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	CB	Cameron et al. (1994) "Multiple Domains in a Ribozyme Construct Confer Increased Suppressive Activity in Monkey Cells" Antisense Research and Development 4: 87-94.			
	CC	Harborth et al. (2003) "Sequence, Chemical, and Structural Variation of Small Interfering RNAs and Short Hairpin RNAs and the Effect on Mammalian Gene Silencing" Antisense and Nucleic Acid Drug Development 13: 83-105.			
	CD	Holen et al. (2002) "Positional effects of short interfering RNAs targeting the human coagulation trigger Tissue Factor" Nucleic Acids Research 30 (8): 1757-1766.			
	CE	Jen et al. (2000) "Suppression of Gene Expression by Targeted Disruption of Messenger RNA: Available Options and Current Strategies" Stem Cells 18: 307-319.			
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	CH	Opalinska et al. (2002) "Nucleic-Acid Therapeutics: Basic Principles and Recent Applications" Nature Reviews 1: 503-514.			
BW	CI	Randall et al. (2003) "Clearance of replicating hepatitis C virus replicon RNAs in cell culture by small interfering RNAs" PNAS 100 (1): 235-240.			

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				Application Number	10/646,070
				Filing Date	August 22, 2003
				First Named Inventor	Michael W. GRAHAM
				Art Unit	1606 1635
				Examiner Name	D. Sullivan Whitman
Sheet	1	of	2	Attorney Docket Number	546322000303

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		Number-Kind Code ² (if known)			
BW	AA	US 4,766,072	08-23-1988	Jendrisak et al.	
	AB	US 5,190,931	03-02-1993	Inouye	
	AC	US 5,208,149	05-04-1993	Inouye	
	AD	US 5,272,065	12-21-1993	Inouye et al.	
	AE	US 2003/0056235 A1 with amendments	03-20-2003	Fire et al.	
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BW	BA	WO 97/44450	11-27-1997		
BW	BB	WO 03/022052	03-20-2003		
BW	BC	WO 03/056012	07-10-2003		

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BW	CA	COHLI ET AL. (1994) "Inhibition of HIV-1 multiplication in a human CD4+ lymphocytic cell line expressing antisense and sense RNA molecules containing HIV-1 packaging signal and Rev response element(s)" <i>Antisense Research and Development</i> 4: 19-26.			
	CB	FIRE ET AL. (1991) "Production of Antisense RNA Leads to Effective and Specific Inhibition of Gene Expression in C. Elegans Muscle" <i>Development</i> , 113(2): 503-514.			
BW	CC	FRASER ET AL. (1996) "Effects of c-myc first exons and 5' synthetic hairpins on RNA translation in oocytes and early embryos of Xenopus laevis" <i>Oncogene</i> 12(6):1223-30.			
	CD	Hungarian Patent Office Search Report mailed July 13, 2004, for Hungary patent application no. P0101225, 1 page.			
BW	CE	KIBLER ET AL. (1997) "Double Stranded RNA is a Trigger for Apoptosis in Vaccinia Virus Infected Cells" <i>Journal of Virology</i> , 71(3): 1992-2003.			
BW	CF	KNOESTER ET AL. (1997), "Modulation of Stress-Inducible Ethylene Biosynthesis by Sense and Antisense Gene Expression in Tobacco", <i>Plant Science</i> 126(2): 173-183.			

Examiner Signature	Date Considered
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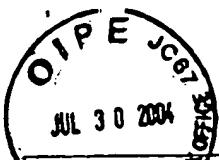
Substitute for form 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/646,070
				Filing Date	August 22, 2003
				First Named Inventor	Michael W. GRAHAM
				Art Unit	1636
				Examiner Name	D. Sullivan
Sheet	2	of	2	Attorney Docket Number	546322000303

BW	CG	KOZAK (1989) "Circumstances and mechanisms of inhibition of translation by secondary structure in eucaryotic mRNAs" Mol. Cell. Biol. 9:5134-5142.	
	CH	LIEBHABER ET AL. (1992) "Translation inhibition by an mRNA coding region secondary structure is determined by its proximity to the AUG initiation codon" J. Mol. Biol. 226:609-621.	
	CI	LINGELBACH ET AL. (1988) "An extended RNA/RNA duplex structure within the coding region of mRNA does not block translational elongation" Nuc. Acids Res. 16 3405-3414.	
	CJ	LOOMIS ET AL. (1991) "Antisense RNA inhibition of expression of a pair of tandemly repeated genes results in a delay in cell-cell adhesion in Dictyostelium" Antisense Res. Dev. 1:255-260.	
	CK	MIKOSHIBA ET AL. (1991) "Molecular biology of myelin basic protein: gene rearrangement and expression of anti-sense RNA in myelin-deficient mutants" Comp. Biochem. Physiol. 98:51-61.	
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	CM	PELLETIER ET AL. (1985) "Insertion mutagenesis to increase secondary structure within the 5' noncoding region of a eukaryotic mRNA reduces translational efficiency" Cell, 40:515-526.	
	CN	PICCIN ET AL. (2001) "Efficient and Heritable Functional Knock-out of an Adult Phenotype in Drosophila using a GAL4-Driven Hairpin RNA Incorporating a Heterologous Spacer" Nucleic Acids Research, 29(12) E55:1-5.	
	CO	SVOBODA, P. ET AL. (2001) "RNAi in Mouse Oocytes and Preimplantation Embryos: Effectiveness of Hairpin dsRNA" Biochem Biophys Res Commun., 287(5): 1099-1104.	
	CP	WATSON (1988) "A new revision of the sequence of plasmid pBR322" Gene 70:399-403.	
BW	CQ	WEAVER ET AL. (1981) "Introduction by molecular cloning of artifactual inverted sequences at the 5' terminus of the sense strand of bovine parathyroid hormone cDNA" PNAS 78: 4073-4077.	

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Examiner Signature sf-1856851	/Brian Whiteman/	Date Considered	06/12/2006
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Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 546322000303 Application Number 10/646,070

Applicants

Michael Wayne GRAHAM et al.

Filing Date August 22, 2003

Group Art Unit 1632 1635

Mailing Date July 27, 2004

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
BW	1.	8/25/1998	* 5,798,265	Springer et al.			
	2.	7/4/2002	* 2002/0086356 A1	Tuschl et al.			
	3.	8/22/2002	* 2002/0114784 A1	Li et al.			
	4.	2/6/2003	* 2003/0027783 A1	Zernicka-Goetz			
	5.	4/29/1997	*5,624,803	Noonberg et al.			
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	7.	7/23/2002	*6,423,885	Waterhouse et al.			
	8.	6/3/2003	*6,573,099	Graham			
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	10.	1/14/2003	*6,506,559	Fire et al.			
	11.	2/1/94	*5,283,184	Jorgensen et al.			
	12.	7/27/93	*5,231,020	Jorgensen et al.			
	13.	7/23/91	*5,034,323	Jorgensen et al.			
	14.	12/10/96	*5,583,021	Dougherty, et al.			
	15.	11/11/97	*5,686,649	Chua, et al.			
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BW	22.	6/9/99	* EP 0 921 195 A1	EP			
BW	23.	8/7/02	* EP 1 229 134 A1	EP			

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				Applicants				
				Michael Wayne GRAHAM et al.				
				Filing Date August 22, 2003			Group Art Unit 1632	
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BW	24.	1/13/00	* WO 00/01846	WIPO				
	25.	10/26/00	* WO 00/63364	WIPO				
	26.	4/26/01	* WO 01/29058	WIPO				
	27.	5/25/01	* WO 01/36646	WIPO				
	28.	1/18/01	* WO 01/04313	WIPO				
	29.	7/5/01	* WO 01/48183	WIPO				
	30.	11/22/01	* WO 01/88114	WIPO				
	31.	6/6/02	* WO 02/44321	WIPO				
	32.	1/23/03	* WO 03/006477	WIPO				
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	26.	4/3/03	*WO 03/27298	WIPO				
	37.	7/1/99	*WO 99/32619	WIPO				
	38.	4/20/95	*WO 95/10607	WIPO				
	39.	10/8/98	*WO 98/44138	WIPO				
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	52.	8/27/98	*WO 98/37213	WIPO				
	53.	9/30/99	WO 99/49029	WIPO				
BW	54.	02/01/01	AU 729454	Australia				
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BW	55.	11/12/92	WO 92/19732	WIPO				
	56.	01/20/94	WO 94/01550	WIPO				
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	58.	08/03/00	WO 00/44895	WIPO				
	59.	08/03/00	WO 00/44914	WIPO				
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	69.	* Yang, S. et al. (2001) "Specific double-stranded RNA interference in undifferentiated mouse embryonic stem cells" Molecular and Cellular Biology 21(22): 7807-16.
	70.	* International Search Report mailed on May 10, 1999, for PCT patent application no. PCT/AU99/00195, filed on March 19, 1999, 3 pages.
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BW	72.	* Brummell, David A. et al. (2003) "Inverted repeat of a heterologous 3'-untranslated region for high-efficiency, high-throughput gene silencing" The Plant Journal 33: 793-800.

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BW	73.	*Cogoni, Carlo and Giuseppe Macino (2000) "Post-transcriptional gene silencing across kingdoms" <i>Current Opinion in Genetics & Development</i> 10: 638-643.
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	76.	*Oates, Andrew C. et al. (2000) "Too Much Interference: Injection of Double-Stranded RNA Has Nonspecific Effects in the Zebrafish Embryo" <i>Developmental Biology</i> 224: 20-28.
	77.	*Putlitz, Jasper zu and Jack R. Wands (1999) Specific Inhibition of Hepatitis B Virus Replication by Sense RNA" <i>Antisense & Nucleic Acid Drug Development</i> 9: 241-252.
	78.	*Schramke, Vera and Robin Allshire (2003) "Hairpin RNAs and Retrotransposon LTRs Effect RNAi and Chromatin-Based Gene Silencing" <i>Science</i> 301: 1069-1074.
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	80.	*Ui-Tei, Kumiko et al. (2000) "Sensitive assay of RNA interference in <i>Drosophila</i> and Chinese hamster cultured cells firefly luciferase gene as target" <i>Federation of European Biochemical Societies Letters</i> 479: 79-82.
	81.	*Wargelius, Anna et al. (1999) "Double-Stranded RNA Induces Specific Developmental Defects in Zebrafish Embryos" <i>Biochemical and Biophysical Research Communications</i> 263: 156-161.
	82.	*Fire, A., Xu, S.Q., Montgomery, M.K. Kostas, S.A. Driver, S.E. and Mello, C.C. (1998), "Potent and Specific Genetic Interference by Double-Stranded RNA in <i>Caenorhabditis elegans</i> ". <i>Nature</i> , 391 (6669): 806-811.
	83.	*Garrick, D., Fiering, S., Martin, D.I. and Whitelaw, E. (1998), "Repeat-Induced Gene Silencing in Mammals", <i>Nature Genetics</i> 18(1): 56-59.
	84.	*Dorer, D.R. and Henikoff, S. (1997) Transgene Repeat Arrays Interact with Distant Heterochromatin and Cause Silencing in cis and trans". <i>Genetics</i> 147(3).
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	89.	*Katsuki, M., et al. (1988), "Conversion of Normal Behavior to Shiverer by Myelin Basic Protein Antisense cDNA in Transgenic Mice", <i>Science</i> 241(4865): 593-595.
	90.	*Kook, Y.H., et al. (1994), "The Effect of Antisense Inhibition of Urokinase Receptor in Human Squamous Cell Carcinoma on Malignancy", <i>The EMBO Journal</i> 13(17) : 3983-3991.
BW	91.	*Lee, R.C., et al. (1993), The <i>C. elegans</i> Heterochronic Gene lin-4 Encodes Small RNAs with Antisense Complementarity to lin-14". <i>Cell</i> 75: 843-854.

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